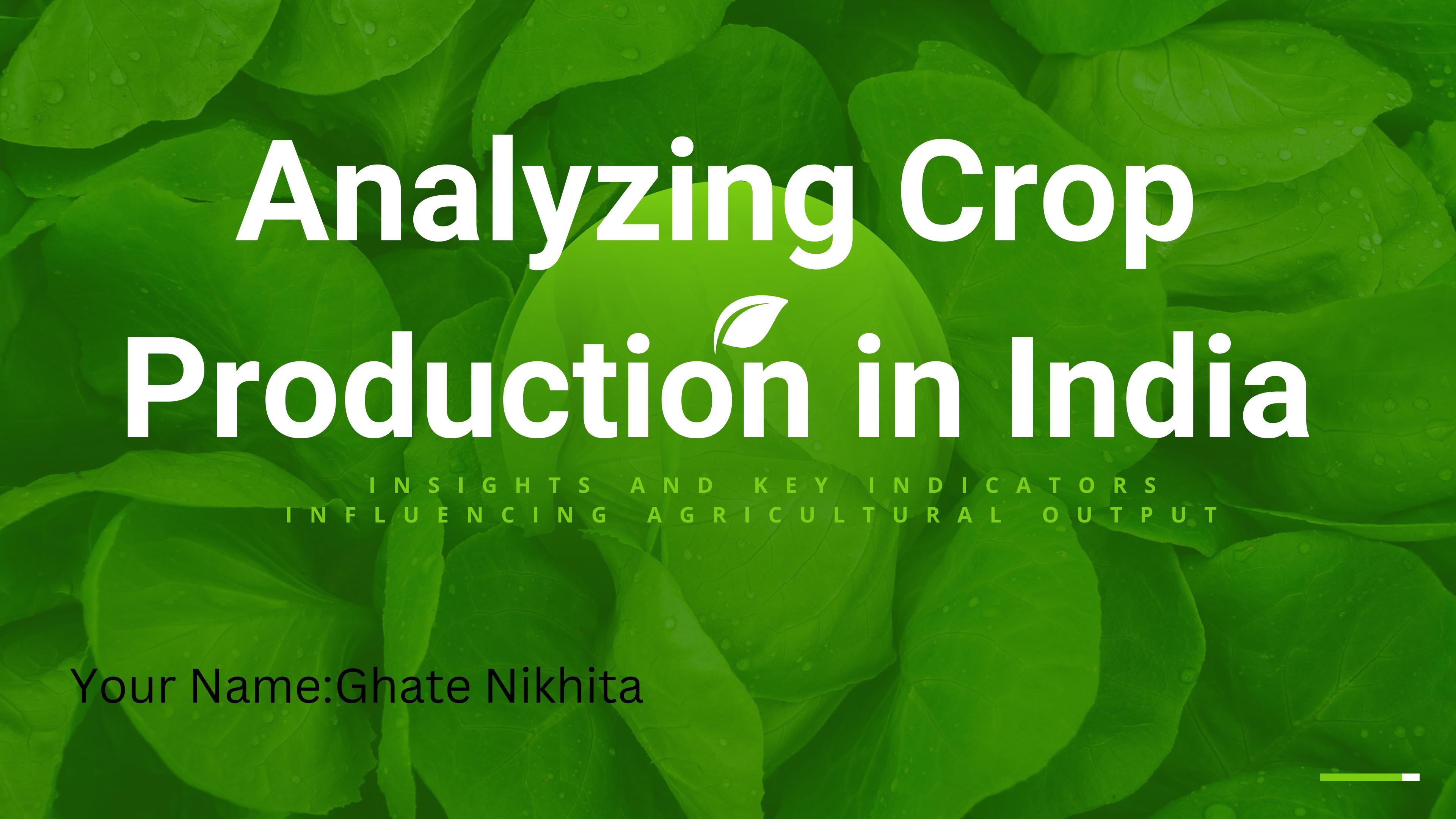


Analyzing Crop Production in India



INSIGHTS AND KEY INDICATORS
INFLUENCING AGRICULTURAL OUTPUT

Your Name:Ghate Nikhita



Introduction

Overview of the Agriculture Sector

- Vital role in India's economy and food security
- Contribution to GDP and employment

Importance of Data in Agriculture

- Data-driven decision-making to enhance crop yield
- Understanding patterns and trends in crop production

Project Objectives

01

Analyze crop production data from various states over several years

02

Identify key metrics and indicators that influence crop production

03

Provide actionable insights for stakeholders in the agri-food sector



DATA SET OVERVIEW



01

Data Source

- Crop production data from multiple regions and time periods

02

Key Features in the Dataset

- State/Region, Crop Year, Season, Crop Type, Area Harvested, Production Volume

03

Timeframe:

- Data ranges from year 2000 to present

Data Preprocessing

01

Initial Data Cleaning

- Handling missing values
- Removing duplicates and irrelevant records

02

Data Transformation

- Aggregation of crop production data by year, season, and crop type
- Conversion of production values into consistent units for comparison





Exploratory Data Analysis (EDA)

01

Crop production patterns across different states

03

**Comparison of Kharif and Rabi
seasons in terms of crop yield**

05

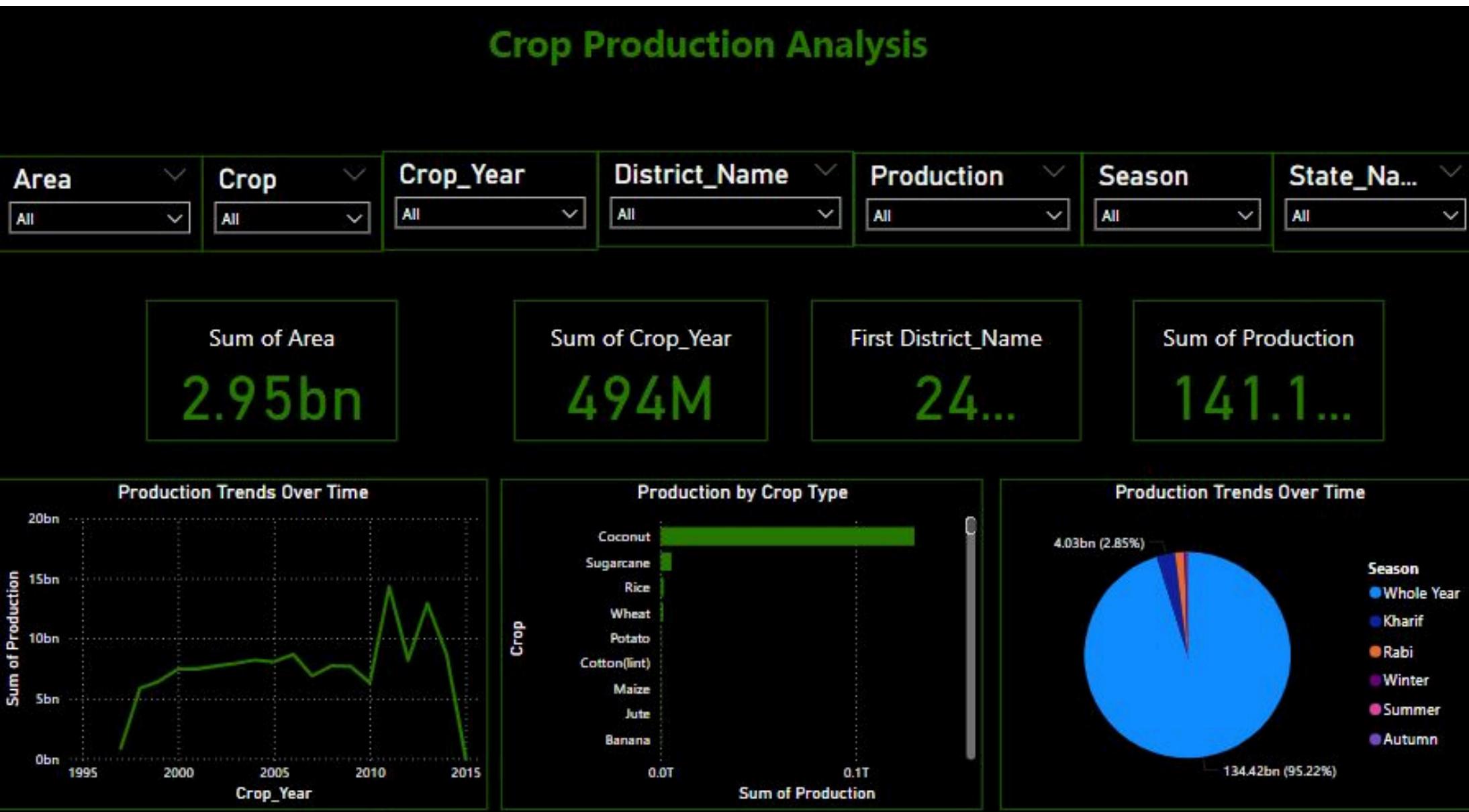
**Identifying crops with the highest and
lowest production volumes**

Key Metrics and Indicators

- Important Factors Affecting Crop Production
- Area Harvested: Relationship between area and production output
- Seasonal Effects: Impact of Kharif and Rabi seasons on yield
- Crop Type: Popular and high-yielding crops in different regions
- Trends and Patterns
- Yearly variation in production
- Regional dominance in specific crops



Visualization & Dashboards



- State-wise crop production analysis
- Yearly trends and seasonality effects on production
- Key crop performance across different states and districts

Insights & Findings

- **Top Producing States:** States with consistently high output for major crops
- **Effect of Seasonality:** How different seasons affect crop yield
- **Production Trends:** Crop production increasing or declining in specific regions





Thank You

